

A.S. Hitchcock  
U.S.D.A.

1923

203720

Cards

38

20321

Composit  
3-5 ft fls yellow

Muhlenbergia diversiglumis

20322

Muhlenbergia  
along cut of R

20323

Acanthae  
1st fl 3-5 ft fls scarlet

20324

~~20325~~

3 ft

Lahaina in fruit

20325

Droscoreal 11  
some leaves all without

*Percilema crinitum*

20326 *Percilema*

Along all of R

*Heteropogon melanocarpus*

20329 *Heteropogon*

Annual, culms mostly single  
slope of hill

20327

Fern

along cul

*Adiantum concinnum*  
*H. & B.*

20330 *Castilleja?*  
pls scarlet

Dry 20333 *Mimulus*  
Slopes. bunches. in fruit

20331 *Spergularia*  
var pls scarlet

20334 *Composita*  
Bark 3-5 ft. in flower

20332 *Clematis*  
woolly vine in fruit

20335 *Mallow*  
leaves pls salmon-pink

20336 *Corolla*

Small tree or shrub 8-20 ft

*Pellaea feroxia* (Cav.)

Lindl.

20339

*Zome*

Rocky cut

III

20337 *Splurina*

Herb, leaves glandular and  
smell like, fls yellow

20340 *Zygophyllum (Hypericifolia)*

Open prairie, leaves with dark  
spot

20338 —

Tree or shrub 6-20 ft  
(collected onבעניפט)

*Paspalum racemosum*

20341 *Paspalum (Omididum)*

20342 Eupatorium  
spotted & b fls  
white

20345 Balloon vine  
Vine fls white

20343 Composite  
stems 10-15 ft high brown

20346 Composite  
stems 10 ft fls yellow

*Melica nutans*  
20344 Melica  
dry slopes among shrubs

20347 Promethea Tulipan  
in trees fls blue

20348 Composite (Beechwood)  
Half shrub - fls orange

20351 Kyllinga <sup>green</sup>  
Pyramidal - rock - bog

Polygogon interruptus  
- 20349 Polygogon  
Common - bog

20352 Elacharis  
Bog

Polygogon elongatus  
- 20350 Agrostis  
Bog

Pennisetum tristachyrum //  
20353 Pennisetum  
Rock slope. w/ old

*Notholaena sinuata* (Sw.) Kauff.

20354 *Felce*  
Rubby cliff

20357 *Solanum (nigrum)*

20355 *Mikania*  
Vine - all upon bare lava  
cliffs. firs white

20358 *Aconitum*  
Common on old slopes  
heights 2-8 ft or even 8 ft.  
mostly 4-6 m wide. Dsgt. 10-15 ft.

20356 *Cissus*  
Creeping over rocks and along  
the ground

20359 *Composit*  
Stems - 8-15 ft  
firs yellow  
blady white-tipped  
top leaves

*Cenchrus echinatus*

-20360

*Cenchrus echinatus*

20363

*Eupatorium*  
Shrub - 10 ft - fls like  
lilac

*Chaetochloa cernua* 3 ft

-20361 *Chadwickia*

In shrubs of bushes on slope  
Bare deciduous forest

20364

Mallow

*Lasiacis sorghoidea* 1

-20362

Zymes

20365

*Zalindia*,  
Half shrub - branches long &  
stringy - up to 10 ft. fls.  
blueish

20366 *Coumouï*  
3-5 ft fls yellow

20369 *Coumouï*  
Herb single stem up to  
12 ft

20367 *Leymus*  
Cushy vine-fls. Salmon-  
orange

20370 *Wittacie*  
vce 30 ft Rocky slope  
in moist place

20368 *Dolichos*? 3  
Stems leaf fls blue

20371 *Physalis*  
4 ft fls blue

20372 Mallow  
4 ft. shrubby vs  
orange-yellow

20373 Baudouin  
= 3/2 ?

20374 Eupatorium " 11  
half shrub. fls white

20375 Lelicia  
Half shrub - 4 ft.披散  
purple

- 20376 Saccharum sorghoidea /  
Lassadae

20377 Ballonice  
Rocky & shrubby mont slopes  
small tree or shrub - <sup>green</sup> green  
even a trunk, orange, up to  
20 ft.

*Adiantum concinnum* H. & B.

20378 *Filum*

Rusty moist slope in  
shade

20381

*Crotalaria*  
7 ft. per yellow

20379 *Cexairis*

Dryish shrub 1 ft. with leaves at  
upper place fls orange  
yellow tinged with brown

*Sporobolus indicus*

20382

*Sporobolus elongatus*

20380

Rusty shrub, branches  
3 ft.

20383

*Convolvulus*  
Shrub 6-15 ft. fls  
lilac

20384 Composite  
Bog

20387 Crocus  
Shrub or small tree 15 ft

20385 ~~Acetosella~~ white  
Shrub 8-15 ft

20388 Legume  
Small tree, 20 ft mostly  
fruit. common

20386 Cowpea  
Small tree or shrub.  
15 ft

20389 Composite  
5 ft. fls orange-yellow

20390 *Cupularia*  
Shrub 10 ft for tree  
(all leaves with fingers)

20393 *Ayalla?*  
Tree growing on water in  
thickets

20391 *Piper*  
Shrub 6 ft

20394 *Hydrocotyle*  
Bog for water

20392 *Withania*  
Shrub. 8-15 ft

20395 *Eriococcus*  
Bog

20396

Small shrub in bog

20397

Cuscuta?  
Bog

20398

Caleolaria  
Bog fles pale yellow

*Muhlenbergia microsperma*

20399

*Muhlenbergia*

20400

Composite  
3 ft fls orange-yellow

20401

Dense  
floating on water of bog

~~Teresita~~. July 5. 3 Km west of  
Buenav. Very rainy place, rains usually every day  
20402 7 pm  
On tree trunk

20403 *Piposomia*

On tree trunk

20404 *Urticaceae*

Open ground

20405 *Deltura*  
Small tree. Fds white, pendulous  
10ft ↗

20406 *Bromeliad*

On tree. Bracts scarlet, fls  
scarlet below, white at opp

20407 *Bromeliad*

On tree

fruity, rawn  
decayed

20408 *Peltaria*  
on tree trunk

20409 *orelud* }  
on tree trunk

20410 *Polypodium (Campyloneurum)*  
sp.  
flwr  
on tree trunk

20411 *Peltaria*  
on tree trunk

20412 *Didymochlaena truncatula*  
(Sw.) J. Sm.  
treebral, found 4-5 ft

20413 *Paspalum decumbens*  
*Paspalum (decumbens)*  
Open ground

20414 *Melastoma*  
Tree 15 ft. fls white

*Guadua*

20415 *Bambusa*  
Common in woods, Spiny  
as much as 6 or 7 in diameter  
60 ft tall, feather looking in  
distance like Pampas grass  
Young shoots very stout and with  
blunt pointed, sharp, shiny basal with  
black hairs so that the young shoot is dark

20416  
Stems 3-4 ft. fls green  
fruit yellowish green, 5 mm diam.

20417 *Leyne*  
Tree with few branches, 15 ft.  
leaves a cluster at end of stem  
& branches, fls scarlet, very  
distinct, on slender branches from  
base 1 stalk

UNITED STATES DEPARTMENT OF AGRICULTURE  
GRAY HERBARIUM OF HARVARD UNIVERSITY  
NEW YORK BOTANICAL GARDEN  
EXPLORATIONS IN SOUTH AMERICA

Ecuador: Province Guayas. Teresita, 3 kilometers west of  
Bucay

No. A. S. HITCHCOCK, Collector

Alt. 270 M.

July 5-7, 1923

Sp  
fls  
on  
pa

40

UNITED STATES DEPARTMENT OF AGRICULTURE  
GRAY HERBARIUM OF HARVARD UNIVERSITY  
NEW YORK BOTANICAL GARDEN

EXPLORATIONS IN SOUTH AMERICA

20545

Ecuador: Province Guayas. Teresita, 3 kilometers west of  
Bucay Alt. 270 M.

No.

A. S. HITCHCOCK, Collector

July 5-7, 1923

UNITED STATES DEPARTMENT OF AGRICULTURE  
GRAY HERBARIUM OF HARVARD UNIVERSITY  
NEW YORK BOTANICAL GARDEN

# **EXPLORATIONS IN SOUTH AMERICA**

900.5

Ecuador: Province Guayas. Teresita, 3 kilometers west of  
Bucay Alt. 270 M.

No.

# A. S. HITCHCOCK, Collector

July 5-7, 1923

UNITED STATES DEPARTMENT OF AGRICULTURE  
GRAY HERBARIUM OF HARVARD UNIVERSITY  
NEW YORK BOTANICAL GARDEN

EXPLORATIONS IN SOUTH AMERICA

100345

Ecuador: Province Guayas. Teresita, 3 kilometers west of  
Bucay Alt. 270 M.

No.

A. S. HITCHCOCK, Collector

July 5-7, 1923

20414 *Melastoma*

Tree 15 ft. fls white

*Guadua*

20415 *Bambusa*

Common in woods, Spiny  
as much as 6 or 7 in diam.  
60 ft tall. Foliage looking in  
distance like Pampas grass.

Young shoots very stout and with  
blunt pointed, smaller sharply hirsute with  
black hairs so that the young shoot is dark

20416

Stems 3-5 ft. fls green  
fruit yellowish green, 5 mm diam.

20417 *Leymus*

Tree with few branches, 15 ft.  
leaves a cluster in each of stem  
& branches, fls scarlet, very de-  
ciduous. on slender branches from  
trunk, fruit globose, 1 seeded  
5m N 545

20418 *Leymus*

Similar to 20417 tree, with bunch  
leaves in cluster at summit.  
fls scarlet, very deciduous.  
on slender branches from lower  
part of trunk, fruit 1 seeded  
5m N 545

20419 *Composc*

4 ft. fls yellow

*EchatoGramme furcata* (L.)  
Tree.  
20420 *Tum*  
on tree trunk

*Selaginella* sp. <sup>Kunzeana A. Br.</sup>  
<sup>(det. Austin)</sup>  
20423 *Selaginella*  
in moist ground

20421 *Comoclypeae*  
Slow tree stem 3-4 ft  
fls purplish

*Panicum polygonatum* 1  
20424 *Panicum polygonatum*  
More open ground  
Smooth petioles emit

20422 *Pipromia*  
On branch of tree

*Johannanthus axillaris*  
20425 *Jehuana*  
Tangled mass of leafy  
thicket. Shrub like

20426 Connollyana

most green & wld + t  
bristly fls white

20427 Connoui

hd 8 ft fl yellow  
surf line with short branches

20428 Connollyana

most green & wld + t  
bristly fls greenish

*Oplectron variflorus*

20429 Upl. mucus

(variegata)  
most green or strip of streaks.  
rough, erect fl branches each  
about 3-4 ft long.

20430 Connoui

hd branched fls white  
6-8 ft

20431 Urticee

strong smell, 3-4 ft

*Lasiacis miscanthoides* /

20432 *Loradex villosa*  
clustering in ditch

*Panicum polygonatum*

20433 *Panicum polygonatum*  
open moist ground

*Paspalum orbiculatum*

20434 *Paspalum orbiculatum*  
low moist open ground  
a weed in field

July 6

forest between  
house & station  
in fruit colony  
edge

20435 Palm

Forest, trunk (up to inflores) left, stem  
inflorescences creamy white, fls., pendulous,  
hang above (15 ft).

20436 *Ulmus*

On small tree. Dptbr. 3 ft

*Lasiacis oaxacensis* /

20437 *Loradex oaxacensis*  
In forest

*Lasiocarpus ligulata*

20438 *Lasiocarpus (ligulata?)*  
in fruit

20441 *Oreohlycid*  
on tree branch

20439 *Polypodium loricatum* L.?  
fern  
An tree

20442 Compound III  
High Climber, leaf twice  
ramped 3, side older rays  
red

20440 Aroid  
terrestrial, many clumps  
fls white, petiole 2-3 ft

20443 Gramineae ?  
Sporadic up of long scapes  
fls greenish, plumose with dark  
purple streaks, blades with  
similar color along midrib  
scapes beneath,  
3 ft

20444 *Melastoma* <sup>whole</sup>  
shrub 6-8 ft. fls white  
calyx pink

20447 *Solanum* <sup>white</sup>  
shrub, rough stem fls white

*Schizanthus pallens*

20445 *Schizanthus*  
forest - more white than  
than at mtl, but probably  
same in shade

20448 *Salamina* <sup>white</sup>  
about 4 ft. fls creamy

*Schizanthus pallens*

20446 *Schizanthus*  
2d fls of form in open

20449 *Rubia* ? <sup>white</sup>  
shrub n fruit 4-8 ft, fruit  
(moupe) dark green  
unripe

20450 *Aeonium* " "  
vert from decubat base

20453 *Sedum mucronatum*  
found, Palms, 3-leaf, inflo  
2-8 ft from ground. fls  
cream - pink pink

20451 *Hedysarum*  
Slow prof fls white

20454 *Piperomia*  
on branch of tree  
Mats thin - oval oblong L. wob

*Asplenium serratum* L.

20452 *Thymus*  
on tree

*Echatogramme furcate* (L.)

20455 *Fern*  
on tree

Trev.

20456 *Begonia*  
climbing lithophytic  
fruit only

20459 *Piperomia*<sup>B</sup>  
on branch of tree  
same as 20458

20457 *Asplenium auritum* Swartz  
fern  
on tree

20460 *Rubiaceae*?  
shrub 3 ft. fl. white

20458 *Piperomia*  
on branch of tree  
black venation on short oval

20461 *Gesneriaceae*  
flwr 3-6 in. fls pale  
yellow bracts or calyx orange  
red. lip of labellum red brown

20462 *Polypodium fraxinifolium* Jacq.  
(sens. lat.).  
Tilma  
On tree

20463 *Iresine*  
Shrub 4 ft fls reddish  
yellow

20464 *Ipomoea*  
Vine in open ground along  
clearing

20465 *Polypodium piloselloides* L.  
Tilma  
On tree branch

20466 *Silene*  
Shrub with thin leaves  
spiral bracts red  
fls orange red

Panicum pilosum  
20467 *Panicum pilosum*

*Schizanthus axillaris*

20468 *Schizanthus*

Open ground at edge of  
village, low-growing  
species different from 1966  
but may be same

20469 *Acaena*  
Weed along road to village

*Aconopus scoparius*

20470 *Aconopus* —

Callid gommaloh, fruit  
purple, flower yellowish  
Cultivated in garden,  
leaves branched,  
plant 6 ft.,  
leaves 4 in. long

20471

*Euphorbia*

Open ground

*Chaetochloa geniculata*

20472

*Chloris geniculata*

Open ground

20473

*Oxalis*

Leaves yellow Open ground

20474 *Buxirocodytes*  
Wet open place

20475 Shrub 3 ft fruit Schrubs

20475 *Callistemon*?  
Small tree 20 ft fls pub  
downy

20478 *Millettia*)  
Shrub 8 ft

20476 *Scutellaria*?  
Up to 22 ft. fls yellow  
ground fls pale yellow

20479 *Neptunia* pendula (Raddi)  
J. Som.

20480

Lvs like  
fern  
fls white

20483

Tre 20 ft from orange tree

20481

Shrub 4-8 ft fls white

20484

Edge of forest tree

bromeliad sprig

*Selaginella* sp. (det. Astor)

*Selaginella*

20482 Seed arms

Leedy stem 3 ft  
Calyx red corolla white  
cream

20485 Orchid

on tree

20486 *Alcautia?*  
pink on floor of forest

20487 *Dorabid* 6  
*Terrestrial* 3 ft

20488 *Droid*  
*accumiscent*

20489 *Droid* ~~white~~  
*climbing* ~~white~~

20490 —  
true woody fls greenish  
whl.

20491 *Droid* 1  
of 450

20492 Verbena?  
scrub 6-10 ft. fls  
purple-blue

20495 Ageratum?  
woolly shrub climbing  
fls pedicellate, corolla green  
in center,  
outside, dark purple-blue  
on wings

20493 Ageratum?  
woolly shrub, half climbing  
fls yellow with brown  
strands, corolla green  
pedicels & hirs. edges purple

20496 Peperomia?  
low scrub place

20494 Composit  
scrub under-spreading  
bracts yellow

20497 Solanum  
scrub under-spreading  
10 ft fls white?

20498

*Grewia*  
High Climbing woody vine  
Orange splashed with  
dark red or nearly all red

*Imperata contracta*

20499 *Imperata cordata*  
Creeping in forest

20500

Composit  
Shrub wide-spreading  
4-10 ft. fls yellow  
leaves with tormentor buried

20501

*Grewia*?  
2-3 ft. fls scarlet  
rose

20502

*Vitis*?  
Shrub 6-8 ft. fls  
reaction dark blue

20503

*Lolium*  
most upper ground  
creeping rooting in tufts  
fls blue-lilac

20504 Cornplant 1  
3 ft fls yellow  
(same as some pre-  
ceding number?) 419  
*out*

20505 Beggar's-ticks  
high elevation  
fls white

July? Road through forest  
and along R. side of  
stream

20506 Pipe  
Herb. vell 3-4 ft - large round leaves

20507 Mallow  
Herb. vell. 3 ft fls yellow

20508 Rubia?  
Herb. vell fls scarlet

20509 Beggar's-ticks  
fls yellow

20510 Guava  
Along by small tree or whole

20513 Papaya? 1000

Single stem 8 ft, has a cluster  
of sweet fruit round, scarlet

20511 Cornusie  
Tall shrub, or many  
berries, 8-15 ft ft. white

20514 Rhusace 1000  
Shrub 5 ft fruit lobed,  
somewhat sharp, orange

20512 Slatannia  
8 ft leaves & small bright  
yellow flowers.

20515 Vitex 1000  
Tree, appears like hibiscus  
ft. tall, no leaves on it  
part accessible.

20516

Leaves few white  
yellow, pinkish & white  
Bark greyish brown  
purple on lower & outer parts  
purple at top

20519

Orchid  
Woodland few white

*Hypericum sagittatum*

20517 *Hypericum sagittatum*  
Common along river

20520 *Drimodera*  
few white

20518 *Clethra*  
Few ft. tall, branched

*Aconitum scopulinum*

20521 *Aconitum*  
Two compound species

Dryopteris oligophylla var.  
20522 *film* *aequatorialis* C. Chr.  
Guatemala

20525 Aroid  
Acaulescent or very so

*Lasiacis ligulata*

20523 Lance. (leptolepis)  
Chamfering - mid branched  
panicle small aroid

20526 Aroid  
Many acaulescent

*Lasiacis ruscifolia*

20524 Lanceo. (ruscifolia)

20527 Composite  
Shrub or tree 20 ft. few bran.  
upto

20528 *Anisid*  
*Clinbury*

20529 *Nephrolepis baccata* (Sw.) Schott.  
from  
(The Gray Herb. sheet  
reported as *Polypodium*  
sp., indicates a mixture.

20531 *Mentha*  
stones 4-8 ft. fls. rose

20532 *Brechnia*  
bark 4 ft.

20530 *Grimman*  
scrub 6 ft. fls. on base  
stems

20533 *Tre*, or scrub 15 ft. fls. white

*Isachne arundinacea*

20534 *Isachne*  
Claybury & bracted  
in forest

*Panicum schiffneri*

20535 *Panicum (perenne)*  
Claybury & bracted  
in forest

*Panicum pulchellum*

20536 *Panicum pulchellum*  
In open place along brook  
in forest

20537 *Brucei*

Clemebley

*Chaetochloa sulcata*

— 20538 *Chlorochloa effusa*  
Edge of forest 4 ft

July 2. Road down  
from Bucey

20539 *Milex var*

Rive probably Wood hide  
possibly accessible by waterways  
from

20540 *Rubus*  
Shrub 8 ft. fls. white  
fatmig publsh. fruit black

20543 *Selaginella*  
12-15 ft. leaves in spirals  
fls. 4 in long pale lilac in whorls  
in cyl with lilac

20541 *Selaginella*  
trul a basal stem 1 foot  
scarce

20544 *Bernoulli*?  
Shrub 8 ft. fls. scarlet

20542 *Delonix*  
15 ft. blth 3 ft long 1 ft  
wide, leaves scarlet  
above 10 in cluster

20545 *Leymus*  
fruit 3 4 in

Diplazium sp.  
20546 Firm  
Torresbridae. Found  
10 ft

Diplazium sp.  
20547 Firm  
Torresbridae 6 ft

20548 Cucurbit  
Wood vine

20549 Cucurbit  
Sub vine

20550 Gravata?  
Sripae (wavy) of wood  
rock. fl. white

20551 Wood vine climbing up  
just 3-angled or wide thick wings

20552 Same as 551  
but more matured

20553 Aroid  
Very large leaves, 5 ft  
spash white

20554 Rosaceae?  
Shrub 10-15 ft  
fls yellow fruit scarlet

Chobo - Plantacion Paragon

July 11 - 8 miles south of Magno  
20555 *Axonopus* <sup>*scoparius*</sup>  
Bamboo listed by Mr. Dorer as a  
forage plant. Came from  
Colombia

*Gynorium sagittatum*  
— 20556 *Gynorium sagittatum*  
Common along river. ♀  
Called "Caña viral"

20557 Legum  
Herb river - In cult over mud  
fls blue

20558 *Guazuma ulmifolia* Lam.  
Tree 40 ft. fls yellowish  
green. "Guasmo" known  
locally as  
partly wood

*Eriochloa punctata*

II

20559 *Eriochloa*  
smooth nodes

*Imperata contracta*

-20560 *Imperata*  
Common and a bad  
weed.

20561

Tree - 30 ft.  
flowering. The wood "negrito"  
a soft easily worked wood  
for inside timber and frame work  
of houses. The trunk is mostly  
straight & excurrent. fls white

*Eriochloa polystachya*

20562 *Eriochloa* (?)

Common along river  
and in ravines low land.  
Lands till poor but fine, called  
famous for morads. Cut, as  
purple grass. May be  
*E. polystachya*. Roots harsh.

July 12  
20563

*Ipomoea*

Root red, fls rose-purple

20564 *Impatiens*  
3-4 ft. herb fls. white  
in old field

20567 —

Tree 30 ft. fls. ~~white~~  
yellowish green. Call it "Jobs"

*Hakea oblonga granularis*

20565 *Ruellia granulosa*  
in old field

*Lasiacis oaxacensis*

— 20568 *Lorularia oaxacensis*

*Andropogon brevifolius*

20566 *Andropogon brevifolius*  
Along edge of field, Ranj.  
masses

*Lasiacis ruscifolia*

— 20569 *Lorularia ruscifolia*

*Eragrostis glomerata*

20570 *Eragrostis (glomerata)*  
Annual, Leafy bunch f 5-10 stems  
4 ft.

*Panicum megistum*

20571 *Panicum megistum*  
Damp places

*Oplismenus hirtellus*

20573 *Oplismenus hirtellus*  
Edge of woods

20574 *Solanum*

Straggling, rather delicate herb.  
fls white. Stems up to 6 ft.  
here low

20572 *Piper*  
Shrub 6-10 ft

20575 *Cucurbita*

Buckwheat fls white

20576 *Lasiacis ruscifolia*  
*Lasiacis ruscifolia'*

20579 *Eichornia*

Tubbs like our water hyacinth  
pls white, upper petal with  
blue patch or bar and a orange  
yellow spot at top of blue.  
in water

*Arundo donax*

20577 *Phragmites?*  
Guiana; had not in flower  
Called "Carrizo"

*Panicum hirsutum* -

20580 *Panicum hirsutum*  
Large clump in moist place

20578 *Cyperus*  
In old field

*Chaetochloa vulpiseta*  
20581 *Chaetochloa vulpiseta*  
Among Iguana & shrubs.

July 13

20582 *Inga* 1  
Used as a shade for coffee  
fls white also wild

"Guabo de Bejuco"

long slender fruits

20583 —  
Tree 30 ft fls green

"Sapote de Paloma"

— *Lasiacis mucifolia* 1  
20584 *Lasiacis (mucifolia)*  
Wlh in open places & small fls.

*Guadua*

— 20585 *Bambusa* 1  
The common large bamboos  
spec. shows to vigorous leaves &  
young shoots.

20586 *Cornus posidonia* 1  
Herb 5 ft fls yellow

20587 *Dunalia*  
Waxy vine.

20588 *Clitoria*

bark red, fls rose-purple

20589 *Sapindaceae*

Waxy wood fls white

20590 *Sporoya*

bark red fls rose-purple

20591 *Erythrina*

Used as shade for cacao

"Palo prieto"

fls - standard  
salmon-yellow wings  
red on upper half. Red  
very pale yellow mixed  
with red.

Tree up to 80 ft. trunk & branches without  
prietos.

20592 *Iolanthus*

Shrub 8 ft fls white

20593 *Abrus precatorius*

Vine, flowers pink (or blue) her-  
baceous. fls yellow

20594 *Jatropha*

Physic nut "Pisonia"

Used for lime fire pots -  
dry land (will not endure  
water)

20595 *Apteryx*

Wire vine for fence

*Cenchrus ciliaris*

20596 *Cenchrus ciliaris*

Armed, 2 ft. long clumps  
Shrubs Keelid

20597 *Crotalaria*

Common in sandy land by  
river channel. flowers yellow

*Axonopus scoparius*

- 20598 *Axonopus*

Savaloa. Forms as much  
as 12 ft. formed on new soil  
along river.

- 20599 *Paspalum conjugatum*

Forming long slender tufts  
as much as 4 ft. along river  
on new soil.

20600 *Ceratostylis*  
Distr from a weedy tree  
fls yellow

Panicum hirsutum  
20601 *Panicum Mysorensis*  
Mysore place

20602 *Pennisetum*  
Among brush old walls

Ichnigra - July 16.  
Along hill north of town  
20603 *Ceratostylis*  
Distr from thickly growing brush near  
waterfall

20604 *Ceratostylis*  
ditto

Adiantum concinnum H. & B.  
20605 *Fern*  
Rocky bank.

20606

Sedge  
Shady bank

*Syntherisma ecuadorensis*

20609

*Valota?* <sup>110</sup>  
Caves, stones - like a bell camp  
plum.

20607

*Lasiacis sorghoidea*!  
Lvs like Sorghoidea  
Among stones

20610

*Stipa mucronata*  
*Stipa mucronata* <sup>111</sup>  
Dry hill

20608

*Chaetochloa geniculata*!  
*Chaetochloa (geniculata)*  
Slender & branched, clus.  
among stones, prim.

20611

Amaryllid <sup>"</sup>  
Dry slope fl wt - salmon esp -  
green lvs with white margins  
bulbs

20612 *Polygonum*  
vs purple. 3 ft

III

20615 *Dessodinum*  
Long straggly, vine-like & rose  
to blue or purple

20613 *Eragrostis pilosa* II  
Grasses  
looks like *E. pilosa*

*Andropogon pachyodes perforatus* III  
20616 *Milop (saccharum)*

20614 Composite  
vs rose-purple

20617 Composite  
Shrub 3 ft vs yellowish

20618 *Tephroseris*  
dark green fls yellow, with  
orange veins on the 2 large  
petals

20619 *Rubia*  
low shrub 1 ft. fls white

20620 *Melilotus*  
Kub 4 ft. fls

*Heteropogon melanocarpus*  
20621 *Heteropogon*  
with fruit - probably same  
as 329

20622 *Polygala*  
fls white

20623 *Euphorbia*  
annual, downy plants with hard  
woody stem, others delicate

20624 *Comptonia*

Snow 2 ft., yes non-magnate

20625 *Bambusa*

Snows, 4-10 ft. yes non-select

*Andropogon hirtiflorus*

20626 *Andropogon* (leuconurus)

large bunches on dry slope

*Trinachloa stipoides*

20627 *Muhlenbergia*

Kaup kudzu, under slope

*Heteropogon contortus*

20628 *Heteropogon contortus*

dry slope

*Bouteloua disticha*

20629 *Bouteloua disticha*

dry slope

20630 Composite 1  
3-6 ft fls yellow.

20633 Bromeliad  
dry slope. Large cluster of  
leaves at base, inflorescences 3-6 ft  
tall, bracts & clyx greenish, corolla  
white.

20631 Paniflor  
from semi-humid  
fls brilliant scarlet

20634 Composite  
somewhat showy, much branched  
3-6 ft fls yellow

20632 Composite  
3-6 ft fls yellow

Pereilema crinitum 1  
20635 Pereilema  
shady bank, common

July 17

Surve to Morro de Papata along Rg.,  
20636 Passiflora  
Vine, br. yellow, lvs. wavy,  
of corona cross-barred with blue  
& purple.

20637 Passiflora  
dark vine & white fruit  
very spiny species rather spi-  
ky outside bracts not pointed enough  
most slopes near Morro de Papata

20638 Passiflora  
dry bank, fls yellow  
with soft

20639 Begonia  
Wet cliff = Morro de Papata fls.  
white. Stem covered scarcely above  
soil,

20640 Begonia  
Probably same as 20635

20641 Ocotea  
Rocky cliff fls rose-purple

20642 *Begonias*  
Slopes of pasture no. with fl.  
only (A one with a stem 1 foot high)

20645 *Euphorbiae?* <sup>111</sup>  
Tree or shrub 10-15 ft. fls (stems?)  
purple.

*Tripsacum dactyloides*

20643 *Tropaeolum*  
(Glucocaltus or dactyloides)  
Large bunches 4-6 ft. partly  
shaded slope.

20646 *Lamium*  
Wood (?) vine. brtl. pendulous,  
fls. orange yellow, leaves  
wings white with purple

20644 *Juniper on 693*  
*Claviceps tripsari* Stev. & Hall  
Sierra enter April  
9, 1924.

20647 *Oxalis* 1  
Moss cliff

20648 *Sporophyllum*?  
cliff & dry banks. fls red  
mixed with orange

20649 *Eupatorium*  
straggling herb 3 ft fls  
blue-purple

20650 *Mystacium*  
2-3 ft herb, fls pale purple

20651 *Eupatorium*  
herb & cl fls greenish  
yellow

*Paspalum saccharoides*  
20652 *Paspalum saccharoides*  
more branched

*Andropogon saccharoides parviflora* f.  
20653 *Aeleorop. (saccharoides)*  
stony banks - probably some 6 ft  
but not so culmiferous

*Chaetochloa tenax*?

20654 *Chloris* (silosa)

Stalks green among stones in  
more place

*Andropogon saccharoides perforatus*

20655 *Androp.*

Stony bank, panicle loose  
the branches spreading, very differ-  
ent from 653

*Paspalum humboldtianum*?

20656 *Pasp. humboldtianum*

Stony slope among stones,  
mostly less old

20657 *Solanace*?

Plant 3-8 ft. fls pale yellow or  
yellow, greenish on outside

Leaves & petioles ~~are~~ densely covered  
with very prickly hairs. Not open  
in forenoon.

20658 *Euphorbiace*?

Along track

*Pennisetum setosum*

20659 *Pennisetum (silosa)*

Stony bank, has brown-  
purple.

*Andropogon saccharoides laguroides*

20660 *Androp.* (Caudata)  
var. *languida*  
dry slopes

20663 *Leymus* (*Elytrine*?)  
Small bunches 10-20 ft. tall hills  
fls. scarlet, no leaves.  
branches <sup>dark</sup> with short prickles

*Aristida adscensionis*

20661 *Aristida*

Annual

20664 *Bromus*?

Small rounded bunches 5-10 ft.  
fls. rose-scarlet (pinkish fading  
to dark red)

20662 *Clinopodium*  
fls. of a reddish m.  
fls. scarlet, purple season

20665 *Euphorbia*  
Prostrate mats along R.

20666 Begonia  
Post office fls & p with 642 ft

20667 —  
Stems 6-8 ft. hts  
yellow-green

20668 *Pennisetum peruvianum*  
~~Pennisetum~~  
Among brush up to 10 ft.  
Mud brown. Leafy stems, the stem

*Pennisetum tristachyum*

— 20669 *Pennisetum*  
Stony bank of slopes. 5-6 ft. sometimes  
taller. Much branching above

20670 *Eupatorium*  
Stems hairy half-shrub. 3-8 ft. hs  
creamy white

20671 *Fern*  
*Polypodium angustifolium* Swartz  
Hanging down from out  
cliff.

*Panicum schiffneri*

20672 *Panicum (Downingia)* " " " " " " " " " "

more place in shade

20673 *Convolvulus* - *Volvenscul?*  
Husk Vine - near Maranopala

20674 *Cleome*  
Bulbous - pods explosive.  
More woods - near Maranopala

20675 *Acalypha* " " " " " " " " " "

fls yellow wet cliff

20676 *Bromeliad* " " " " " " " " " "  
Rocky slope - Umbrella - blades  
splattered with purple

*Andropogon bicornis*

- 20677 *Andropogon bicornis*  
Rocky slope

20678 *Melastome*  
fls white

20679 *Oreliid*  
Rocky cliff - woodland

*Pterilema crinitum*

20680 *Pyrularia*  
west slope

20681 *Bromeliad*  
Rocky cliff fls scarlet opp  
Large bushes of prickly bracts with a  
few flowers. No large leaves except  
one spec. Probably come in moderate num.

*Chaetochloa porrecta*

20682 *Cleome* (*Physoplexis*)  
Among brush in rather moist places

20683 *Phytolaceae?*  
Shrub 8-15 ft fls white  
green

20684 *Eupatorium*  
3 ft. gls white

1

20685 *Pisiolotrichum*  
Slow or small tree 6-15 ft  
perennial fine black

Alausi, July 19. alt. 8500 feet

*Massella pubiflora*

20686 *Mopsella*  
Grassy slope - common

*Aristida adscensionis*

- 20687 *Aristida* <sup>leaf</sup>  
Mud. Desert upper to h. <sup>Wadsworth</sup>  
m. Open cut.

20688 *Composit*  
alcy. by <sup>with</sup>

*Bromus unioloides*  
- 20689 *Bromus mafoides*  
Open ground alcy. by

20690 *Eragrostis pilosa*  
Eragrostis (umbellata)  
Open ground along R.  
Wt C stiff pilose

20691 *Eragrostis pilosa*  
Rosilla  
open grass land

20692 Compound thistle  
Promontory 3-4 ft

20693 Solanace  
2-4 ft. fls green

20694 Lobularia  
2-4 ft. fls Scarlet

Chloris pycnothrix  
20695 Chloris  
along R.

*Bouteloua simplex*

20696 *Bouteloua*  
Open grassland - common but  
60 odd!

20697 *Seropha*  
2-8 ft. fls. rose-purple

20698 *Stipa milleana*  
Open grassland - common

20699 *Solomae*  
Shrub 8 ft. fls green.

*Cortaderia guila*

- 20700 *Cortaderia*  
Large heads and billlets. Basal  
cluster 3 ft., infl. 6 ft. fls.  
rose white

*Stipa ciliata*

20701 *Stipa ciliata*  
Open grassland & billlets  
mossy stem white

20702 *Melilotus*  
Straggly - much branched  
4-8 ft., fls. Magenta-purple  
sticky  
Along an arroyo

20703 *Melilotus*  
Similar to 202 but very slightly  
sticky

20704 *Compositae*  
Half shrub, 1-2 ft., Rays white  
Open ground.

20705 *Lathyrus*  
1-2 ft., fls. lavender  
along a bank

20706 *Compositae*  
shrub 4-6 ft. forming dense  
leafy mass, fls. white

*Festuca australis*!  
- 20707 *Fistulea* (bromoides)  
Open cut, Common but too old

20708 *Stipa (mucronata)*

20711 *Zahia*  
Hillside - fls. rose-purple

*Sporobolus indicus*

20709 *Sporobolus* - spike  
Common in grassland

*Stipa depauperata*

20712 *Stip.* narrow panicle  
Common in pasture  
Lands like 8. morth,

20710 *Bromus*  
Alley by - 4-6 ft

*Eragrostis lurida*

20713 *Eragrostis*  
Hillside - common

20714 *Euphorbia*  
prostrata umbellif.

20715 *Quadrinia*  
Open eve - fls pale rose

*Aristida spadicea*

20716 *Schoenus spadiceus*  
Open grassland, common <sup>but two</sup>  
old bluffs Gandy. Much of  
ground slopy, spreading

*Aegopogon cenchroides*  
20717 *Poa*  
Open grassland

*Eragrostis bichtinii*  
20718 *Eragrostis*  
Open grassland - common but  
no all

20719 *Loligia* see 705  
Shrubby fls lavender

20720 *Desmodium*  
fls. yellow & blue  
2-4 ft.

20721 *Stipa mucronata* ?  
*Stipa* (Mucronata)  
Leaves grass-like, concave  
Panicles open

20722 *Agropyron attenuatum*  
Many culms on ground

*Paspalum despauperatum* (?)  
20723 *Paspalum (canescens)* (?)  
along cut

20724 —  
Shrub 3-5 ft., fls. rose-purple

20725 *Lathyrus*  
2 ft. fls. scented

20726 *Composit (Franseria)*  
3-6 ft

Chiriquí - July 30, Road toward Culebra, uphill  
in shade, about 5000-6000 ft mostly.

20729 *Sapindace*,  
Road just fls. vehicle  
dry hill

20727 *Lippia molleriana*  
Grazing land, common but  
mostly low 1000

20730 *Dioscoreace*  
Along irrigation stream,  
fls. flower

20728 *Solanace*  
Stem 4-6 ft fls. brown  
purple

20731 *Compositae*  
2-3 ft fls. yellow  
dry hill

20732 *Symplocheia*  
most deeply pinnate fl white  
with a reddish tinge

20735 *Bignonia* 11  
Small tree 20 ft fl yellow  
dry slope

20733 *Mystacis*  
Shrub 8-15 ft fl red  
dry slope

20736 *Composid*  
Shrub 10-15 ft fl white  
thin branch  
dry thicket

20734 *Composit*  
Shrub rugged & 15 ft  
fls lilac  
dry slope

20737 *Pink*  
Shrub 8-12 ft fls white  
dry thicket

*Melica scabra* 1  
20738 *Melica (scabra)*  
Bushy slope

*Chusquea peruviana* 1  
20741 *Chusquea*?  
Stout - Straggly - 8-15 ft  
dry brushy slope

20739 *Bromeliad*  
on tree. Many leaves in basal  
crown. Depth about 3 feet, 2 ft.  
from only

20742 —  
Small tree isolated 10 ft  
fls green  
dry slope

20740 *Colocasia*  
Shady place, 2 ft. taller

*Stipa mucronata*  
— 20743 *Stipa (mucronata)*  
dry grassy slope, some open

*Lasiandra ligustrina*

20744 Lasiandra

As part of the Dipterocarpaceae mix  
2 ft to 3 ft shrubs. But branches of  
smaller plants are + pubescent at base  
light yellow greenish.  
dry thickets - flowering among shrubs.

20745 Dalbergia

Shrub 2-3 ft 1/2 deep root  
Imper. Dry slope

*Festuca esmeralda*

20746 Festuca

dry thicket

20747 Passiflora

uburn dry thicket  
fls brownish orange - base greenish purple.  
leaves green with purple veins.  
petioles run purple on upper those - finally  
brownish

20748 Adelicia

on tree dry thicket

20749 Adelicia

an her of tree  
fls brownish orange - in center  
a little darker

20750 *Arcuaria*  
Large shrub or tree, 10-15 ft  
fls greenish white

*Andropogon saccharoides perforatus* /

20753 *Andropogon saccharoides*  
open prairie. Fls very tall, cl.

20751 *Convolvulus*  
Shrub - sterile - up to 12 ft  
Rays scarlet, branching, spiny  
at base of branches, spiny  
slender stem in pairs or clusters (on  
older parts)

*Lasiacis ligulata* /  
20754 *Lasiacis (deltoloma)*  
Clustering in moist thickets

Feb 27 - Hillside north of town - along old Rd  
20752 *Thlaspi* 5000 ft. grad.  
Grassy hillside, fairly dense brush  
*Trochopogon montufari*

20755 *Begonia*  
in moist thickets. Stems several branches  
divided at base, 10-15 ft tall.  
Infls terminal. Stems purple.  
Fls white with pink.  
Leaves more or less wavy - much pub

20756 *Oreohid*  
On hill in mont. brush  
no wild. fls orange-salmon

*Stipa mucronata* 1  
20757 *Steppe*  
Muny bank

*Eragrostis bucktenii* III  
20758 *Eragrostis*  
Muny bank

*Trisetum degenioides* 1  
20759 *Trisetum*  
mont. brush

20760 *Bromus*  
Muny bank

*Aristida marginata*  
20761 *Steppe* *Aristida*  
open sun - old bluffs  
Mtn & pinyons,  
Muny hill

*Festuca megalura* !  
20762 ~~Gr.~~ *Festuca* (Bromoids)  
dry cut

*Aristida schiediana* /  
20765 *Aristida*  
dry hill

20763 *Oreohid* " "  
In tree in moist thickets  
vs yellow with brown-red  
spots

*Andropogon hirtiflorus* !  
20766 *Andropogon*  
dry hill

20764 *Lomatia?* "  
Shrub 3 ft; dry hill, fls  
yellow

*Andropogon brevifolius*  
20767 *Andropogon brevifolius*  
side of cut

20768 *Muhlenbergia diversiglumis*  
Dry hillside  
2nd fluc

20771 *Stipa mucronata*  
Dry hill

20769 *Polygonum*  
Shrub line 20 ft. Hs yellow  
Dry hill side

*Chaetochloa cernua* 1  
20772 *Chaetochloa*  
2d zigzag (Veloro Alau) dry slopes  
common in dry regions of Mexico.

20770 *Borragis*  
Shrub 10 ft. Hs white  
Dry hill

*Eragrostis pectinata* 1  
20773 *Eragrostis*  
2d zigzag

*Sympetrum depauperata* Provina  
20774 *Lipa* <sup>W</sup> *Provina*  
Colapaxa National Park (414 Km)

La Rinconada - A ranch  
between Ibarra and Tulcan  
Sr. Tamaya - Altitude 18  
about 10000 ft. partially wooded slopes  
20775 *Composae*  
Shrub

*Dryopteris* sp. Same as 20780  
20776 *Tree*  
Rowne

20777 *Composae*  
Shrub

20778 *Gesneriae*  
Shrub or small tree.  
Cotyled yellowish, Calyx red

20779 *Tree*

Dryopteris sp. Same as 20716  
20730 Flwr  
Ravine

20731 Geranium?

Hediondium - Asplenium  
20732 Parthenocissus  
new comb.

Asplenium monanthes L. var.  
20783 Flwr  
Shady ravine

Asplenium monanthes L.  
20784 Flwr  
Shady ravine

20785 Composite  
Open slopes & gullies

20786 Solanaceae  
Liana, shrub or small tree  
fls white

20789 Composite  
Shrub

20787 ~~Engelhardtia~~ —

20790 Vitaceae  
Somewhat shrubby

20788 Olsinaceae  
Open ground

20791 Melastomaceae  
Shrub fls white

20792 *Ficale*  
Shrub

"

20795 *Seraph*  
Shrub fls purple-pink

20793 —  
Shrub fls red

"

20796 *Composic*  
fls white

20794 *Seraph*  
fls purple  
Shrub  
Composic

*Calamagrostis planifolia* 1  
20797 *Calamagrostis*

20798 *Festuca procer*  
*Festuca*

20801 *Galinu*  
fru orange-red

20799 *Bromus unioloides* /  
*Bromus*

20802 *Alyss*  
fls yellow

20800 *Agrostis humboldtiana*  
*Agrostis pumila*

20803 *Urticac*  
5 lbs = > 90?

20804 Amarbel  
pls bracts red

20805 —  
thick spiky many leafless stem

20806 Solanum  
small tree

20807 Ericaceous

20808 Composite

See next book for remainder of  
La Rinconada (no 20938)

Oltavala to Malembo Aug. 12

20809 Stipa  
Along adobe wall - Ibarra  
Stipa neesiana

20810 Mallow

Shrub - fls orange yellow

20813

Small tree

20811 Solanace?

Shrub - fls orange red

11

20814 Mimosa

Small tree fls pink

20812 Mimosa

Small tree fls white

20815 Passiflora

Orn. fls scarlet

20816 Legume  
Small shrub, fls blue

Cyclophorus americanus (Hook.)  
c. Chr.  
20817 Flgm  
dry cliff,

Agropyron attenuatum  
20818 Agropyron

Agropyron cenchroides  
20819 Agropyron cenchroides  
dry bank

20820 Alm  
tra 25 ft

20821 —  
shrub fls blue

*Oreopanax ecuadorensis* Seem.

20822 *Euphorbia?*  
in 25 ft

20823 *Myrsinaceae*  
fls white

20824 *Solanum*  
fls white

20825 *Chrysuna*  
Straggly or climbing  
several ft

20826 *Acanthac?*  
shrub - fls scarlet

20827 *Calomma pectoris*

Agrostis rurescens 7  
20828 Agrostis

Bromus unioloides )  
20829 Bromus

Chaetochloa vulpina  
20830 Chaetochloa  
damp shady place

Valota insularis  
20831 Valota insularis

Paspalum macrophyllum  
- 20832 Paspalum  
with 530

Chaetochloa canina  
20833 Chaetochloa  
common in the dry hills

*Sporobolus argutus*  
20834 *Sporobolus argutus*  
dry slope

20835 *Amphioxys*  
dry slope

20836 *Amarantae*  
dry slope

20837 *Mimica*  
Small m - dry slope  
fls yellow

20838 *Tillandsia*  
on trees in dry valley

20839 *Verbenace?*  
dry slope, slopes 10 ft

20840

small tree

11

20843

legume  
Small tree ph yellow  
orange-pink

20841

Shrub, ph. blue white

20844

legume  
shrub

Malchinu to Pomagui - Aug. 13  
Upper elevations 10000-11800 feet  
wooded hillsides

20842

Opuntia

Cactus  
To represent photo

20845

Composite  
Shrub

20846

Shrub fls yellow

20847

*Eupatorium*  
fls white

20848

*Rubiac*  
small tree fls scarlet

20849

*Polygonum*  
Rocky slope - 11' 500 ft

20850

*Polystichum Sodiroi* Christ  
fern  
Rocky slope

20851

*Composit*  
Rocky slope

20852 *Luzula*  
Rocky slope      ditto

*Cortaderia columbiana*!  
20855 *Cortaderia*  
Rocky slope 11,600 ft

20853 *Archid?*      ditto?  
Rocky slope      ditto

*Agropyron attenuatum*  
20856 *Agropyron*  
Almondos      bank

20854 *Luzula*      /  
Rocky slope      ditto

*Agrostis flexiculmis*  
20857 *Agrostis*  
Small tufts in open places  
Inflores pale

20858 *Cyperaceae*  
Shrub Reaps white

20861 *Capparisidae* ?  
Small tree

20859 *Oreobium*  
Rocky slope fls pale yellow

*Cortaderia sodiroana*  
20862 *Cortaderia*  
5-8 ft. tall loose com-  
pound with the one around pungra

20860 —  
Aspid of Pin plant  
Blades 2-3 ft in diameter  
crenulate in center but lobed at edge  
2 ft. 18 inches long

*Neurolepis tessellata*  
20863 *Plantaria* ?  
Loose clumps or patches. 5-8 ft.

20864 *Bromus* *pitensis*

*Bromus*

1

20867 *Axalis*  
Drooping gone back

20865 *Festuca australis*

*Festuca*

1

20868 *Compos*  
Slowly mostly be light  
purple

20866 *Lepidium*

*Lepidium*

1

20869 *Compos* " "  
sturb.

20870

1

20873

Solamum  
small tree

20871

20874 Duracium  
Rocky bank

20872

Cyperace

Calomagrostis planifolia

20875

Calamagrostis

20876 *Orechia*  
Steep bank on cliff

20879 —  
Shrub - bls red with  
yellow tip

Wohlberndti (Ksse)

20877 *Lycopodium* ~~sp.~~  
Cliff

- 20880 —  
Varie - vs white

20878 *Vireya*  
Small shrub

20881 *Muhlia pinnata*  
8 feet

20882 *Impatiens* " 11  
pls blue-blue

20883 *Elaphoglossum tectum* (H. & B.)  
from moore  
Cliff

20884 *Gymnospermae*?  
Shrub pls red

20885 *Couperus*  
Shrub

*Triniochloa stipoides*  
20886 Stipe

20887 *Couperus*  
Shrub

20888

Small tree

20891

Archid

1

20889 Rubiacie

Shrub fls blue

20892

Euphorb  
shady place

20890 Alandiae ?  
Shrub fls blue bran

20893

Lathia  
fls blue

20894 Melastomaceae  
Shrub fls pink-purple

*Eragrostis pectinacea* 1  
20897 *Eragrostis*  
On a stone wall

20895 Melastomaceae  
Shrub fls white

*Stipa italica* 1  
20898 *Stipa*  
dillo

20896 Cressidae  
An annual with glaucous  
fls & infl. silvery white

*Polygonum interruptus* 1  
20899 *Polygonum*

20900 *Polypogon elongatus* /  
*Polypogon*

20903 *Andropogon saccharoides parvispicule*  
*Andropogon* Sack.

20901 *Stipa mucronata* /  
*Stipa*

20904 *Eragrostis patula*  
*Era pusti*

20902 *Eragrostis pastoensis* /  
*Era pusti*

20905 *Notholcus lanatus*  
*Notholcus lanatus*  
common on an slope  
from cult.

20906

20907

20908

6571

